FAULT LOCATION

BURNER FAILS TO START

Situation	Possible causes	Remedies
Motor runs Burner pre-purges Flame occurs Burner locks out	Flame instabillity	
	Incorrect head settings	Check nozzle to burner head dimension and elektrode position
	Low oil pressure	Check oil pressure
	Excess air	Adjust air damper
	Photo cell not seeing light	Check that photo cell is clean and unobstructed
	Photo cell failed	Confirm with new photo cell
	Control faulty	Confirm with new control. (NB. it is advisable to change the photo cell if also changing control
Motor runs Burner pre-purges No flame occurs Burner locks out	False light	Check that photo cell is not seeing ambient light
	No spark	Check that H.T. leads are sound and are not arcing other than at electrode gap
		Check oil supply to burner - check that pump is not airlocked
	No oil	Check operation of magnetic valve

BURNER FAILS TO START AFTER NORMAL OPERATION

Burner fails to start Lamp not lit	Fuse has blown	Check or replace fuse if necessary. Check reason for failure
	Appliance thermostat has not reset	Adjust thermostat
	Appliance overheat device has operated	Reset overheat device. Find reason for its operation and rectify
	Control relay or Photo cell defective	Check by replacement
Motor runs Burner runs to lockout	No oil being delivered	Check that tank, oil lines, fire valve, pump and nozzle are all in good order
	Excessive flue draught is preventing flame establishment	Rectify condition
	No spark	Check ignition transformer. Check electrode gap and porecelains

DELAYED IGNITION, BURNERS STARTS VIOLENTLY

Burner pulsates on start-up only with hot flue	Excessive draught	Recommission burner
Burner pulsates-on start-up	Nozzle partly blocked	Replace nozzle
	Oil pressure too low	Check and recommission
	Flue blocked or damaged	Check and rectify
	Fan slipping on shaft	Check and retighten
	Pump coupling loose or worn	Check and replace
Burner starts violently	Delayed ignition	Check the electrode adjustment, see diagram
		Check electrodes for damage
		Check H.T. leads for damage and disconnection